THE PORT AUTHORITY OF NY & NJ Memorandum

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To: Sal Samperi
From: Dominick Montalbano
Date: January 25, 1988
Subject: WTC-ASBESTOS ABATEMENT - REQUIRED BULK SAMPLING & AIR SAMPLING FOR ASBESTOS CONTAINING MATERIALS (ACM)
Reference:

Copy To: P. Boyce, N. Budeiri, T. Cancelliere, J. Carlock, T. Donovan, M. Kirshner, R. Linn, R. Lynch, D. MacIntyre, J. Mullen, J. Pannebianco, J. Pearse, H. Pool, A. Preschle, D. Schneekloth, J. Urinyi, A. Vaccaro

OEPM 122

This will confirm my request to you of the need to station two asbestos sampling technicians at the World Trade Center to respond to the on-going needs to take bulk samples of material suspected of containing asbestos for submission for laboratory analysis; and, to perform air sampling for air-borne asbestos materials to monitor existing conditions and to monitor areas where ACM is being disturbed. At this time it is estimated these technicians will be required for approximately one year. Following is a description of bulk sampling and air sampling that is required:

BULK SAMPLING:

3 WTC - VISTA HOTEL - This structure was built (from above the Plaza Level) after the ban on the use of asbestos fireproofing materials. A check survey is to be made to confirm the fireproofing is not ACM.

Some sampling of pipe and duct insulation is also planned to learn the character of the material used in the Hotel.

6 WTC - CUSTOMHOUSE - We were advised U.S. General Services Administration performed an asbestos survey of this structure. We have not been able to get a copy of the report. We did receive an excerpt purported to be a summary of the samples taken and their results. It appears only 26 samples were taken for the entire structure. Based on sampling done on other WTC structures, this sampling is very superficial. It did not identify ACM in the truck dock area which has been identified to exist based on previously sampling. As building owner, it is our responsibility to define the asbestos conditions in the structure; therefore, a comprehensive survey of the building will be required, including sampling of pipe and duct insulation.

PLAINTIFF'S EXHIBIT 1 PX-712

PA 10A P-60

A-82919

Fisk: Lack - planned expenditure over many years - take square foot

ELEVATOR SHAFTS - Elevator shafts in 4 & 5 WTC and subgrade elevator shafts for J&K cars in 1 & 2 WTC require samples to be taken for ACM analysis. These areas have not been previously samples. Also, because of the erratic results of ACM sampling performed for 1 & 2 WTC shuttle and local elevators, supplementary sampling is planned to define which shafts can be clarified as asbestos free and which have ACM. Part of this sampling program will be the analysis of suspicious material removed from the elevator pit or top of the car, each time these areas are cleaned, for approximately one year.

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UTILITY SHAFTS - No sampling to date has been done in the utility shafts. Sampling will be required before contractors can be permitted in these areas to install or alter utilities. Sampling will be taken in conjunction with the elevator shaft sampling to attempt to develop some correlation of which sections of the Tower cores, or plaza building cores, have ACM.

EXTERIOR WALL SAMPLING - Records indicate asbestos fireproofing of the exterior wall was stopped in the area of the 16th to 19th floors of 1 WTC. Sampling is required to define the limits of its existence. Also sampling is required to define, or refute its existence, at isolated locations above the 19th floor where previous sampling identified isolated locations of ACM.

Sampling is also required to define the insulating materials used between the convection and exterior wall of 4 & 5 WTC.

OLD & NEW PATH TERMINALS - Sampling is required to define the nature of the material used for soundproofing in the new PATH Terminal. Also, any suspect materials remaining from the old PATH Terminal below 4 & 5 WTC need to be checked.

MECHANICAL EQUIPMENT ROOMS - There is a need to define which rooms have ACM fireproofing as apposed to asbestos fireproofing with an ACM hard coat. Those areas with only ACM hard coat require sampling to define the extent of the area of the hard coat.

The same has to be done for soundproofing. Where stryofoam board was used for soundproofing in lieu of spray-on material, those areas are also to be defined.

FLOORS 1 THRU 6 of 1 WTC, AND 1 & 6 of 2 WTC - Sampling similar to the MERs is required.

MISCELLANEOUS - Supplementary sampling is required for areas previously surveyed to re-check or define limits of isolated locations of ACM, to check areas which were previous inaccessible, and to check specifications that may be disturbed during maintenance or construction work which has not been sufficiently defined.

AIR SAMPLING

ASBESTOS REMOVALS - OFFICE FLOORS - Six or more office floors will be abated this year. For each floor, pre-abatement and post-abatement air samples will be required. Daily samples will also be required to monitor conditions on the floor outside the abatement area as well as the floors above and below the abatement floor.

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ASBESTOS REMOVALS - PUBLIC AND O&M AREAS - A net cost call-in contract, with an approximate value of $3 million over two years, will be let this year to clean-up ACM that has fallen on ducts and pipes over the past years. This contract will also remove asbestos materials from public areas which are easily subject to damage, and remove large quantities of ACM when it is required for maintenance repairs or emergencies. Air sampling will be required during all of these removals.

ASBESTOS REMOVALS - CONSTRUCTION CONTRACTS - There are several construction contracts which were held up for several years because of the disturbance of ACM. These include the HVAC Remote Control System, CO Sensor Analyzer for Parking Areas, Sprinklers and Smoke Detectors for Filter Units in MERs, Sprinklers for WOW Restaurant Kitchen, West Street Canopy, plus others. Air sampling will be required whenever ACM is to be disturbed.

ASBESTOS REMOVALS - TENANT CONTRACTS - At times tenant construction will require the disturbance of ACM, such as N.Y. Telephone Company's work and First Boston's work performed last year. Air sampling will be required for other tenant work to be performed this year which disturbs ACM.

MONITORING TENANT AREAS - Air sampling is required to audit conditions in tenant areas and to respond to specific requests from tenants to check their areas.

I expect at times the demands during asbestos removal activities will exceed the ability of these two technicians to respond, at which time I would expect you to supplement their efforts through your environmental consultant agreements. We are, of course, expecting to utilize the services of your environmental consultant to monitor abatement areas and contractor's activities for major WTC asbestos removal contracts, similar to the services performed by Engineering's environmental consultant, Kaselaan & D'Angelo, for our 1987 abatement work.

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